

CLAIMS

What is claimed is:

1. A method of testing an operating system, said method comprising:
5 invoking said operating system to create a process, said process having
a first thread;
executing repetitively at least a test function in said first thread of said
process; and
repeating said invoking and said executing to create processes and to
10 execute said test function in parallel and repetitively in the first thread of created
processes until a given condition is satisfied, said given condition comprising
exhaustion of operating system resources.
2. The method of Claim 1, wherein said executing further comprises
15 initializing at least said test function.
3. The method of Claim 1, wherein said given condition further
comprises a selected number of processes being created.
- 20 4. The method of Claim 3, wherein said selected number of
processes is chosen by a user.
5. The method of Claim 1, wherein said invoking further comprises
invoking said operating system to create at least a second thread in said
25 process.

6. The method of Claim 5, wherein said second thread is created by said operating system according to a configuration file.

7. The method of Claim 5, wherein said second thread is created by
5 said operating system upon a user request.

8. The method of Claim 5, wherein said second thread is created by said operating system upon a first thread request.

10 9. The method of Claim 5, wherein said executing further comprises executing repetitively said test function in said first and second threads.

10. The method of Claim 5, wherein said repeating of said invoking and executing is for creating processes with said first and second threads to
15 execute said test function in parallel and repetitively in said first and second threads until said given condition is satisfied.

11. The method of Claim 10 further comprising retrieving results of said test function applied in parallel in said first and second threads.

20

12. The method of Claim 5 further comprising:
deleting said second thread; and
invoking termination of said test function by said first thread.

25 13. The method of Claim 12 further comprising deleting said processes.

14. A system for testing an operating system, said system working in relation with at least a test function, wherein said system comprises:

a test launcher for performing invocation of said operating system to create a process, said process having a first thread;

5 said test launcher also for performing execution of said test function in said first thread repetitively;

 said test launcher also for repeating said invocation and execution to perform execution of said test function in parallel and repetitively in said first thread until a given condition is satisfied, said given condition comprising
10 exhaustion of operating system resources.

15. The system of Claim 14, wherein said test launcher is also for initializing said test function.

15 16. The system of Claim 14, wherein said given condition comprises a selected number of processes being created.

 17. The system of Claim 16, wherein said selected number of processes is chosen by a user.

20

 18. The of Claim 14, wherein said test launcher is also for performing invocation of said operating system to create at least a second thread in said process.

25 19. The system of Claim 18, wherein said second thread is created by said operating system according to a configuration file.

20. The system of Claim 18, wherein said second thread is created by said operating system upon a user request.

21. The system of Claim 18, wherein said second thread is created by
5 said operating system upon a first thread request.

22. The system of Claim 18, wherein said test launcher is also for performing execution repetitively and in parallel of said test function in said first and second threads until said given condition is satisfied.

10

23. The system of Claim 18, wherein said test launcher is also for retrieving results of said test function applied in parallel in said first and second threads.

15 24. The system of Claim 18, wherein said test launcher comprises a deletion module for deleting said second thread, and to invoke termination of said test function by said first thread.

25. The system of Claim 24, wherein said deletion module is also for
20 deleting created processes.

26. A computer-usable medium having computer-readable program code embodied therein for causing a computer system to perform a method of testing an operating system, said method comprising:

25 invoking said operating system to create a process, said process having a first thread;

executing repetitively at least a test function in said first thread of said process; and

repeating said invoking and said executing to create processes and to execute said test function in parallel and repetitively in the first thread of created processes until a given condition is satisfied, said given condition comprising exhaustion of operating system resources.

27. The computer-usable medium of Claim 26, wherein said executing further comprises initializing at least said test function.

10

28. The computer-usable medium of Claim 26, wherein said given condition further comprises a selected number of processes being created.

29. The computer-usable medium of Claim 26, wherein said invoking further comprises invoking said operating system to create at least a second thread in said process.

15

30. The computer-usable medium of Claim 29, wherein said second thread is created by said operating system upon a first thread request.

20

31. The computer-usable medium of Claim 29, wherein said executing further comprises executing repetitively said test function in said first and second threads.

32. The computer-usable medium of Claim 29, wherein said repeating of said invoking and executing is for creating processes with said first and

25

second threads to execute said test function in parallel and repetitively in said first and second threads until said given condition is satisfied.

33. The computer-usable medium of Claim 32, wherein said
5 computer-readable program code embodied therein causes said computer system to perform said method further comprising retrieving results of said test function applied in parallel in said first and second threads.

34. The computer-usable medium of Claim 29, wherein said
10 computer-readable program code embodied therein causes said computer system to perform said method further comprising
deleting said second thread; and
invoking termination of said test function by said first thread.

15 35. The computer-usable medium of Claim 34 further comprising deleting said processes.